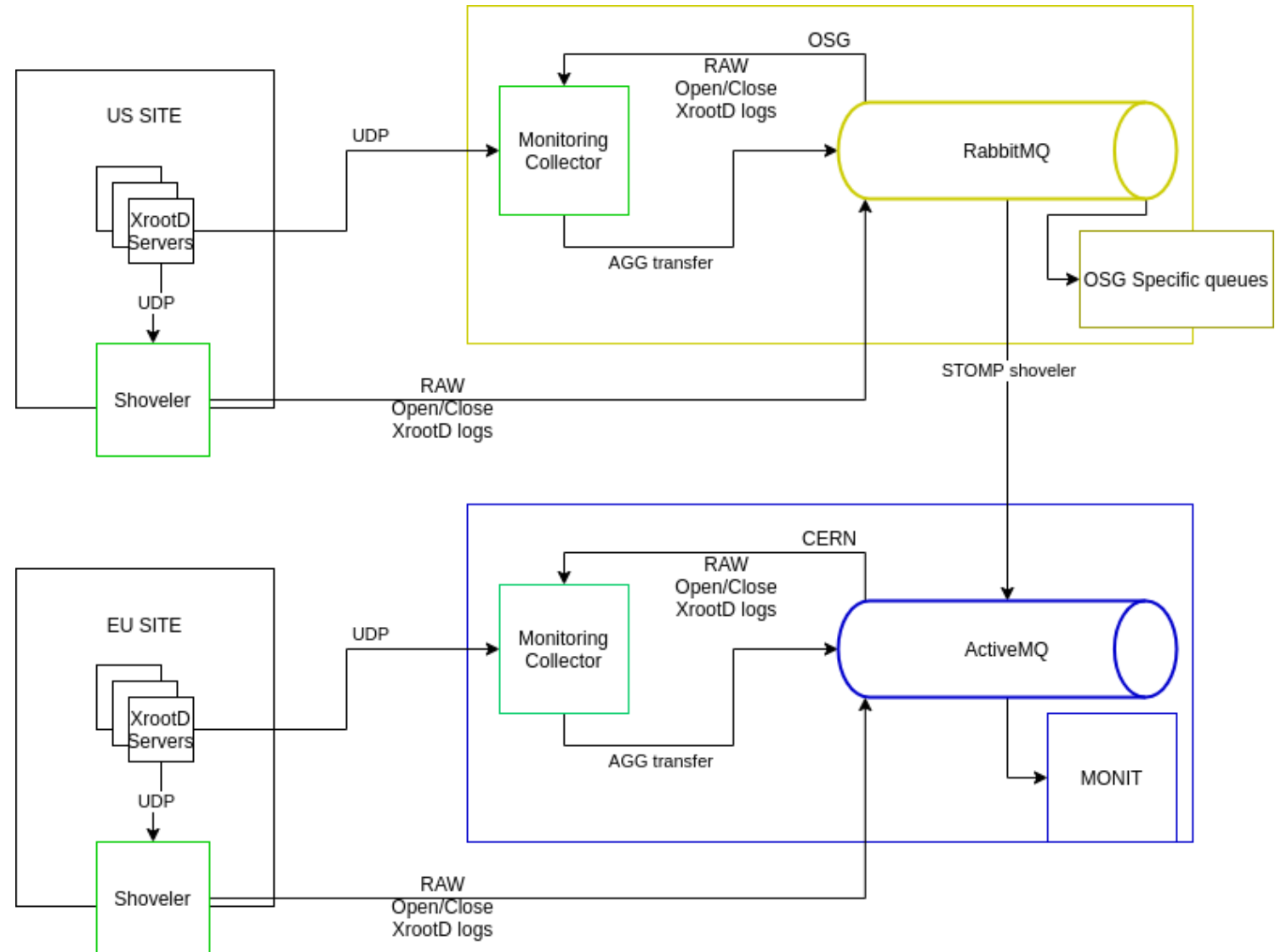


XRootD Monitoring

Discussed infrastructure

- Common components
- OSG specific components
- CERN specific components



Questions:

- Could the shoveler be run/scaled centrally?
 - Will simplify XrootD collector
- Where the data enrichment is done?
 - XrootD event comes with source/destination
 - We need VO and Site

Message formats

- **XrootD RAW:** Events as produced by the XrootD servers
 - XrootD servers need to be configured to send these
 - Directly to the monitoring collector (maybe not needed if we can run a the shoveler as a service)
 - Via UDP shoveler
- **XrootD transfer:** Produced by aggregating transfer events
 - Current agreement only Open/Close events (no Read)
 - Happens on the Monitoring Collector
 - Should contain source/destination and VO
- **Site summary:** Produced by aggregating transfer documents over a time window
 - Requires extra information (site) (enriched using source/destination and VO)
 - Is what's required for Monitoring/Accounting of WLCG
 - Where it happens:
 - GLED: MONIT
 - ALICE: Monalisa
 - New flow: ???

Open Questions

- Could we deploy shovelers centrally?
 - During a transition phase until all the sites deploy their own
 - It should be the same "shoveler" that will run in each site
- Is rabbitMQ used only for data buffering (read/write)?
 - I.e: No any transformation using internal MQ functionality
 - Otherwise a MQ agnostic implementation might not be possible
- Could shoveler/monitoring collector talk Stomp?
 - Will facilitate to use different MQ from Rabbit (CERN uses ActiveMQ)
- Do we require XrootD transfers messages for WLCG monitoring?
 - OSG to CERN ActiveMQ may only need to send Site summaries
 - Directly from GRAC?

Possible simplification

Assumptions:

- Shoveler can be run "as a service"
- XrootD transfer doc is not required
- Site summary has a common format
- GRACC can write to AMQ
- Monalisa can write to AMQ

Advantages:

- Size/Rate of transoceanic messages reduced
- Easy to integrate other reporting tools (Monalisa, Dcache...)

Disadvantages:

- No single transfer information in MONIT

